



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H140487

**Mode:** Highway

**Status:** Submitted

### NC-56

**From/Cross Street:** I-85

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** US 15

**Project Category:** Regional Impact

**Length:** 2.81

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$31,009,000

#### Description:

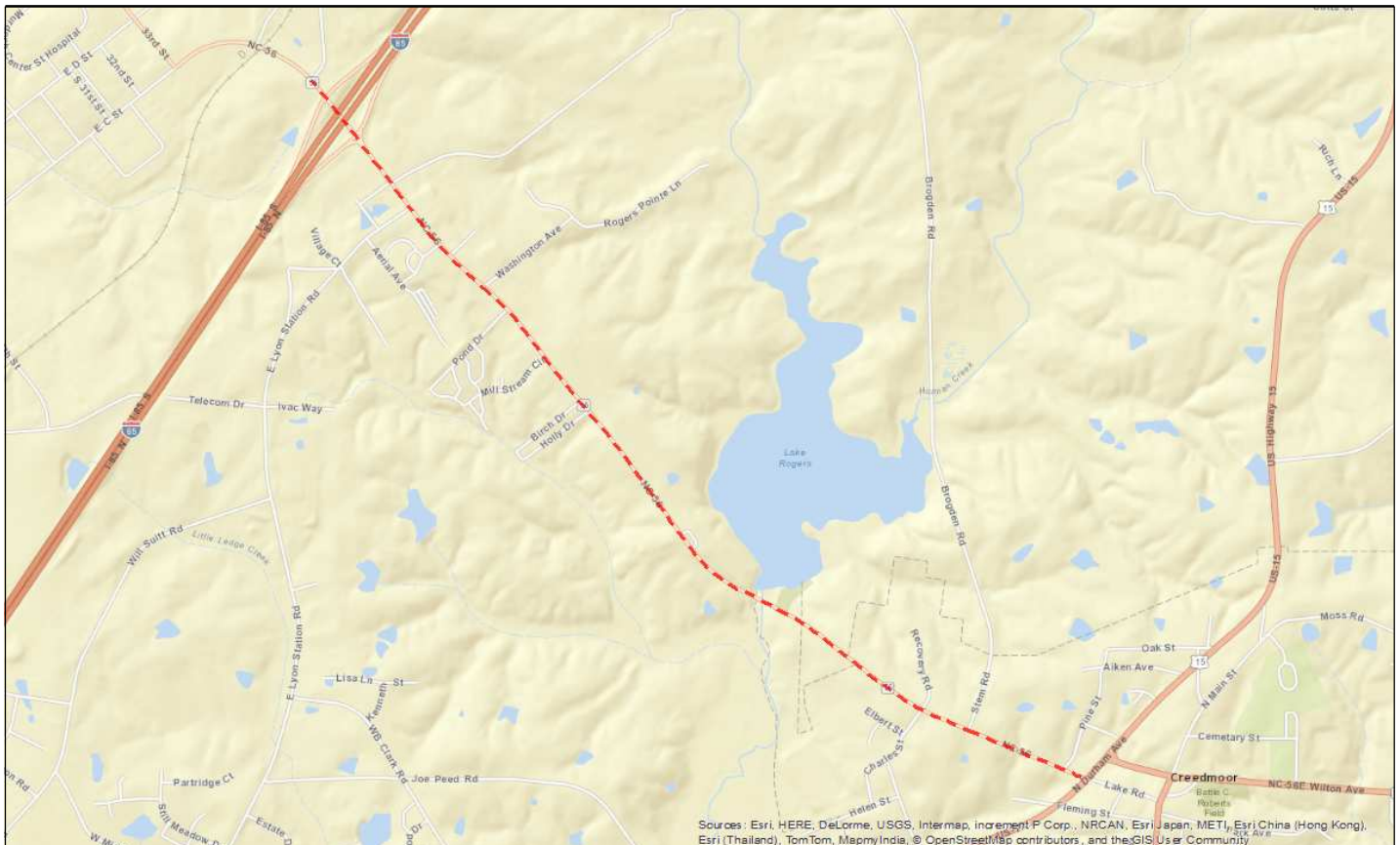
Widen existing roadway from 2 to 4 lanes.

**Division(s):** Division 5

**County(s):** GRANVILLE

**MPOS(s)/RPO(s):** Capital Area MPO, Kerr-Tar RPO

### Project Location



**Statewide Mobility Total Score: 0**

| Quantitative Score                          | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| <b>Totals: Weight: 0% Weighted Score: 0</b> | N/A                                     | N/A                           |

**Regional Impact Total Score: 32.8**

| Quantitative Score  | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| Congestion (V/C) (25%) 46.96<br>Safety (10%) 40.09<br>[Travel Time] Benefit/Cost (25%) 2.84<br>Accessibility / Connectivity (10%) 13.46 | Percent: 15%<br>Points: 0               | Percent: 15%<br>Points: 100   |
| <b>Totals: Weight: 70% Weighted Score: 17.8</b>   |   |                               |

**Division Needs Total Score: 13.97**

| Quantitative Score  | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| Congestion (V/C) (20%) 46.96<br>Safety (10%) 40.09<br>[Travel Time] Benefit/Cost (20%) 2.84 | Percent: 25%<br>Points: 0               | Percent: 25%<br>Points: 0     |
| <b>Totals: Weight: 50% Weighted Score: 13.97</b>  |   |                               |

**Project Data \*****Existing Conditions**

|   |                 |
|---|-----------------|
| Existing Cross-Section:                     |                 |
| Speed Limit:                                | 35              |
| Length (miles):                             | 2.81            |
| Facility Type:                              | Arterial        |
| Access Control:                             | None            |
| Functional Classification:                  | Major Collector |
| Terrain Type:                               | Rolling         |
| Lane Width:                                 | 12              |
| Paved Shoulder Width:                       | 0               |
| Roadway has Curb & Gutter?                  | No              |
| Volume (AADT):                              | 11184.75        |
| Capacity:                                   | 15795.99        |
| Volume/Capacity Ratio:                      | 0.71            |
| % Autos:                                    | 95%             |
| % Trucks:                                   | 5%              |
| Truck Volume:                               | 506.72          |
| Crash Density:                              | 52.4            |
| Crash Severity:                             | 30.96           |
| Critical Crash Rate:                        | 36.91           |
| Crash Frequency:                            | 0               |
| Severity Index:                             | 0               |
| County Tier Designation:                    | 2               |
| Non-Interstate STRAHNET Route?              | No              |
| Average Commuting Time:                     | 23              |
| Existing Median Type (for Cost Estimation): | Undivided       |
| Pavement Condition Rating:                  | 100             |
| Actual Congested Speed:                     | 33.23           |
| Travel Time Index:                          | 1.66            |

**Project Benefits**

|  |   |
|--|---|
| Project Cross-Section:                                 | 4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks |
| Speed Limit:   | 45  |
| Length (miles):  | 2.81  |
| Facility Type:   | Arterial  |
| Access Control:  | Partial   |
| Functional Classification:                             | Minor Arterial  |
| Terrain Type:  | Rolling   |
| DOT Design Lane Width:                                 | 12  |
| DOT Design Paved Shoulder Width:                       | 4   |
| Travel Time Savings for 30 Years (Total):              | 3924982.19  |
| Travel Time Savings for 30 Years (Autos):              | 3747164.36  |
| Travel Time Savings for 30 Years (Trucks):             | 177817.83   |
| Long-Term Employment:                                  |   |
| % Change in Economy:                                   |   |
| Provides Direct Connection to Transportation Terminal? | No  |
| Does project upgrade how the roadway functions?        | No  |
| In CTP or LRTP?  | Yes   |
| CTP/LRTP Name:   | CAMPO 2040 MTP  |
| CTP/LRTP Completion Year:                              | 2013  |
| Submitted by:  | Capital Area MPO  |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 5                   | 100%           | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>0</b>              |

**MPO/RPO**

| <b>MPO/RPO</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|-----------------------------|----------------|------------------------|-----------------------|
| Capital Area MPO            | 95%            | 95                     | 0                     |
| Kerr-Tar RPO                | 5%             | 5                      | 0                     |
|                             | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b> |                | <b>100</b>             | <b>0</b>              |

**Project Cost and Source**

|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Construction Cost:     | \$26,326,000        | Cost Estimation Tool |
| Right-of-Way Cost:     | \$4,181,000         | Cost Estimation Tool |
| Utilities Cost:        | \$502,000           | Cost Estimation Tool |
| Total Project Cost:    | \$31,009,000        |                      |
| Other Funding:         | \$0                 | None                 |
| <b>Cost to NCDOT :</b> | <b>\$31,009,000</b> |                      |